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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/657,169	09/09/2003	Dao-Kyu Park	1315-044	1022	
22429	7590 06/15/2005	•	EXAM	EXAMINER	
LOWE HAUPTMAN GILMAN AND BERNER, LLP			EDMONDSON, I	EDMONDSON, LYNNE RENEE	
1700 DIAGON SUITE 300 /31			ART UNIT	PAPER NUMBER	
ALEXANDRIA, VA 22314			1725	· · · · · · · · · · · · · · · · · · ·	
	,		DATE MAILED: 07/15/2004	_	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
Office Action Summan	10/657,169	PARK ET AL.
Office Action Summary	Examiner	Art Unit
	Lynne Edmondson	1725
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	86(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) day rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on <u>09 Seconds</u> This action is FINAL . 2b)⊠ This Since this application is in condition for alloware closed in accordance with the practice under Expression is the practice of the prac	action is non-final. nce except for formal matters, pro	
Disposition of Claims		
4) ⊠ Claim(s) 1-11 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) ⊠ Claim(s) 2,4,6 and 8-11 is/are allowed. 6) ⊠ Claim(s) 1,3,5 and 7 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or	vn from consideration.	
Application Papers		
9) The specification is objected to by the Examine 10) The drawing(s) filed on <u>09 September 2003</u> is/a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	re: a)⊠ accepted or b)⊡ objecd drawing(s) be held in abeyance. Section is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati ity documents have been receive i (PCT Rule 17.2(a)).	ion No ed in this National Stage
Attachment(s) 1) ☑ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☑ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 9/9/03.	4) Interview Summary Paper No(s)/Mail Do 5) Notice of Informal P 6) Other:	

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DETAILED ACTION

Specification

1. The abstract of the disclosure is objected to because it is too long and comprises more than one paragraph. Correction is required. See MPEP § 608.01(b).

2. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States

only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1, 3, 5 and 7 are rejected under 35 U.S.C. 102(e) as being anticipated by Yoshinaga (US 2002/0193217 A1).

Yoshinaga teaches a method of manufacturing a cylindrical member comprising hollow sections by rotatably supporting first and second members, temporarily coupling the members and then friction stir welding at the interface. The friction stir member and supports move (figures 8, 9 and paragraphs 53-57).

5. Claims 1, 3, 5 and 7 are rejected under 35 U.S.C. 102(e) as being anticipated by Tochigi et al. (US 2001/0040179 A1).

Tochigi teaches a method of manufacturing a cylindrical member comprising hollow sections by rotatably supporting first and second members, temporarily coupling the members and then friction stir welding at the interface. The friction stir member and supports move (figure 1 and paragraphs 11-13, 23 and 59-62).

Allowable Subject Matter

- 6. Claims 2, 4, 6 and 8-11 are allowed.
- 7. The following is an examiner's statement of reasons for allowance: The closest prior art teaches the invention essentially as claimed but does not teach elastically supported rollers, particularly supported by a spring.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

- 8. The prior art made of record and not relied upon is considered partinent to applicant's disclosure. Kikuchi et al. (JPN 2003/112272), Arai (JPN 10-180467 A), Kato et al. (USPN 6244496 B1), Saeki et al. (US 2003/0098335 A1, tack weld and fsw), Ding et al. (USPN 6259052 B1, fsw only), Kato et al. (US 2002/0117537 A1, inertial only).
- 9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lynne Edmondson whose telephone number is (571) 272-1172. The examiner can normally be reached on Monday through Thursday from 6:30 a.m. to 5 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Dunn can be reached on (571) 272-1171. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Lynne Edmondson Primary Examiner Art Unit 1725

LRE

LYNNE R. EDMONDSON PRIMARY EXAMINER